

FIRST FULLY AUTOMATIC SYSTEM OF ICE DETECTION AND ICE CONTROL FOR EVERY TYPE OF AIRCRAFT!



Tice-sensing probe accurately flashing its ice-warning and all-clear signals to the central control unit-the "brain" which directs the on-heat, off-heat action of Goodyear's famed Iceguards, on wing and empennage surfaces. Precious seconds before a pilot's eve could detect ice or his finger flick

UARDIAN outpost of the new system is the

a switch, the operation of the Automatic Iceguard System is in full swing. A new era of safer automatic all-weather flying is introduced by this new electrothermal ice-protection system-developed in conjunction with the National Research Council of Canada - a Goodvear exclusive in the United States.

Proved and already standard equipment on Canada's Canuck CF100 fighters, the automatic detection and control unit is easily installed—and has a total weight of only 11 pounds, 10 ounces!

It is available for your aircraft now. FOR COMPLETE DETAILS, WIRE OR WRITE: Goodyear, Aviation Products Division, Akron 16, Ohio or Los Angeles 54, California.



\*The ice-detection device can be used separately for warning of icing conditions.



CONSTANT SPEED DRIVES







### Makes removing ice a snap

THUS WINGS OF TWA 1 DOW SERVE

from B. F. Goodrich Institute in publics

# SUNDSTRAND

A name to remember in AIRCRAFT HYDRAULICS



e LIGHT \* ACCURATI

factor is fixture de-Weight which is odded for structural succept always means extro costs in mon hours and headlist

BERG - Its evaldivision, stand ready this problem torei. noted plostic fotures gre LIGHT, STABLE PROBLEM" In factures. consult with MEGG on 1989

plostic leminates as a CEMERAL OFFICE PROSE SCHOOL ACKNO THE PARK BOAR DETROY IN MICHIGAN

### Aviation Week

New York 56-130 W. 42nd St., Phone &County 4-2000 (No.N., LO & 2000) Washinston 6.2 C .- National Press Billy, Phone National ESCA Table of Contests on Peop E.

Robert H. Wood . . . Edito

David A. Andreton ...... Engenering Screet Long

533 No Michigan Are. Les Aseries 17 1510 Herns Ridg. Son Francesco 4

Joseph K. Ven Derbest, B. March. Identif W 5 Hall Meson City John O Cospeck See Freile Anadian Work is served by Paint Association, Inc., a subsidies of Associated Prox.

Research and Marketine: Mary Derwitz, June Grabe and June Moffers not and J. S. Cornello, Chicago and St. Louis, E. P. Diacobard, 31, Boston, James Carlo, Balles, Entert H. Sidar, Affreta, R. E. Durland, San Financies, C. F.





### Douglas DC-7 gains extra payload capacity from magnesium castings, extrusions and sheet

As the world's behind structural metal, management's ensering place in military strengt is now well enablished. Designers of companying planes are now taking advanestio. The Inverses Besselv BCJ, for everylewheels, flap-rance, floor beams and many others. Magnessam costings, extracions and skeet are used in Management lends storld readily to all onlinery medicals products rackede Borkey, Conveix, Sikersky, Chance Vesglet and Deagles, smong others, Magazoners may solve a strength-weight problem for you. For full velop parter, tall your search flow rules office or write pertuent, Midked, Michigan, MA 3166



### LOOK no ice It's protected

with "warm-wing" centrels manutactured by UCC' Nameza glose ice, rime nor frost can loop Boeing let bombers from corrovar out their massons

now is strendard communent on Boone wit-Wine tall and environmently surfaces are best at

blest conditions, because this coptrol system operates

the source for control signals regulating host drivery

· AUTOMATIC - Pike has only to turn the moters on

are food with an outpra-

sales a construct to temperat

(U/CC also produces comportment UNITED CONTROL

### NEWS DIGEST

### Domestic

Link Asistion, Inc., will be sold to General Procuses Equipment Curp. ducer of fight traumer devices. GPE. Charles S. Thomas, Assorber De-

New solution to the kest harrier such-

New scarling grow for people and

New Plane for Small-Field Operation

Useful Accord Carp , East Faction).

Kellett Aisenft Copy , Conden, N.

stellation shalled shower a heatest list

Crantina strends industry delivered

Stundanavou Alelines System has pur-

neatles, reported to be capable of de-land a net mount list year of \$206,658 produced by Magrespole-Haucroedl \$1,799,161 is sales

# New heart servo systems

This toroid, produced in our

amphilier, was developed by

"feel," our mannetic arrel-

relays. It is supple, and when

Also important, it is Airborne If you have a neoblem in

Morch 22 1954 Visign Live Tends on Heady Dit Billion Frodrecton S-DA Solls Of tree New Lincols VTO Paylores U. K. Eccale New Mach 1 Fighter. A. Hen Narodes's Joseph Pinn. 

The Aviation Week

Production First Photos Show F7U-2 Production - 26

Lee Adja Believed Arrusch Name NAL Hid Cultus Interestor CAR.

Editorial

The Restab Are Consist!
Thereb Our Gover Cours Many! .... 15

Department State of Congress New Addition Products

ATTENTONES. Accessories Corneration

### os others see us. A user tells

how AETCO SERVICE helped him

to find A bloomit fronted with staffination

curiomers Since our test facilities were highlied, we

Knowing the past experi-We found the time to complete the test was better

FRILIPMENT TESTING AGAIN and multiplied on region restroy, 100

COMPANY ANNAYANIN WHEN MANY OF THE

### WHO'S WHERE In the Front Office Howard A. Morer but reagand as press

Forces T. McNamer, recoders of Con-

Those Maller a new sustest Western

and O. S. Willem her been promoted to Cay N. Temberles his host elected was particular approximated. Except Autoget

Level Lancence, Jr., founder and former

Bostol Assignme Co of Countr's Fosters and Window conthact rights and has tolers L IS Bill, sexual marrier of Scatal Arm

Oct & Webrens a conser of Profe-

INDUSTRY OBSERVER \*Witch for seather major sinfrance and engine contract consolition by

protetres de Davilland DE-110 twin-bossa feliter at the SEAC Furnier-

modified surmay of the DB-116 aircraft at Boyal New art at a corrier-based fighter. New version of the DBL110 has failfing usings and a "Bying traff

► De Havilland is developing a new vesses of its Grose turboot for trem-► Boring to done hash altitude text work on the Posts & Whetney 197 sold.

who are marious to willise this new material wherever possible. A quarter-

PDr Hardland Mougate that Disse Subv will use on her cound-the work!

necompution action. Rance a extracted at 6,000 ps. Mes Biobs expects to cross at 400 raph, at allitudes between \$5,000 and 40,000 ft. PA new rotest relice for the defence contractors in which the property

\* Aircraft Industries Asso, is considering the conblem of allowable denses. principles an construct to their new its paleted admired. Summery of proposed

### AVIATION WEEK

# Twining Warns of Red Jet Striking Power

warmon Buth our strategic and

· AF Chief of Staff says 137-wing force is the minimum

air strength necessary to offset Russia's capabilities. · Radford tells Senate subcommittee that U.S. energies

must not be diverted to a 'purely defensive system.' By Ketherine Johnson

tectical completions are admirable to USAF Chorf of Staff Con Nathan Sociaci are in Mourton of Junetel Inc. . The 117 wing penguas is a "kunsscreen them to our sources in Europe state a revision of this strength ...

Navy Baying ent) with the \$1.9 billion or har \* The most simpleset development severed to below the number or

portionate part of our energies and re-

. The "new look" reflects no share

the tuture should be partilled upon

DRAF and novelde the New on de ► Vandenberg Concept-In his Senate





Preparation a States a As Conditioning a And Control a Anathra y General a Hydrack Fungs



WHAT IT BREET Smarkers a solut line of recognitive hard

PERSONNEL THE PROPERTY STATES AND ADDRESS OF LAW.

SPECIAL PERSON PRATURED. They may held be rough to

MOST SARABLE APPLICATIONS: Mind for Indicurses.

ween avanaged Law Somer to produce these

EXECUTIVE OFFICES LOS ANDICIOS IN CALIFORNIA

**Unobligated Airpower** Funds: 834 Billion ter force and Navy had \$7.6 billion. Accord procument barblades

Command's penint houry breaker In hoe on Feb 1 Obligations of new

buggler bet gut of a "woosen av- og nithaut relating. nired a new electronics building, to tions USAF's new money objections suffers fight test however for the B-52

Nove expenditions for procurement present building for B 52 manufacture.

billion for the first seven needle of below muck. The unexpended believes

Production B-52A Rolls off Line South-Boong Asplicae Co's first. Also adsoluted are a test, from and

P Sole by Sole ... Most present differ, on New 19, 1981 But feet field of FWAY second but the obvious more about that the ember that may remain

P Folding Fin-Doogs and performance men' and wrong colors as "more



### Navy Takes Wraps off Convair and . . .



LOCKHEED plot 15, N. School-



Official selesse of purposes and scents Strenger dark names of Mer 15 and

visco distribution of XFV 1 military



### Lockheed Vertical-Takeoff Fighters

New originally scheduled the VTO selecte for her. 15 but accounts



EEE Feb. 22, p. 15). Assessed Serg of Delener Fred A. Seattes to sarrow Water he was opposed to di latery strates: guisting exclusince to undividual publications on no

perior in VTO continued in a six sentitus active window the New yenish's hybridally hybridally hybridally hybridsential period in advance of the leng spectrosis often in advance of thesis with unfails advance registering generates for the VTO patterns very lower influence of the VTO patterns very lower in the VTO patterns very lower through through the VTO patterns very lower

Whithappen assume defied the New's reling as the goosals that as military security was movined it is no total publishers was appearing with transcular photographs of the VPO fallows before the roll oil the week, and published both stays and partners of the Londberd and Convert prototypes. New orders had been proposed to New orders had been prototypes.

Lockheel and Coorius potentique.

Neys effects bell Arvarens Wasthey were "insententing" the strainb-Vertical Talendi, Londings-Boch of
Comma and Lockheel perceptus a
designed to note all vertically are
and beautiful fight far nounal fight
operations and their land vertically or
foreignin tail handing gare with care

The limiting as accomplished by a scoop to virtual position and share decreat while homeing the sitearity in important Leading as expected to to the most difficult phase of the openition.

The Air Fasco sho has two VTD projects receipt completion by tell Air-crift Corp at Buildie (Jasanisos Wisza Mar 1.g. 11) and its form Accometand at San Diego. The USAN pospers are lei-builty instead of Embryonius as lei-builty instead of Embryonius.

persi ochisei sopplementing the Dileasa Department's tempergraph esniturement, Lockhoof quested six asgracuma; war persident, Hall I Hibbood, sa mentij. "The XXVI points the ever to the day when nearly all flighter planes astiss oil estimation."—The plane's best taken of estimation."—The plane's best taken personalist and produces a they greated their other poor weight of the six





LOCKHIED FILOT Solson accords lables to get to cookpit of warred XFV'1

AVEATION WEEK, March 22, 1954





CONVAIR VED has come intoker sheet of ware. Belly deet to be sill cooler

AVSATION WILK, March 22, 116

Lexibord she says the XTV-1 can be leaded as an or the rate of a beautic court and has a level. You quant "proximating 500 web." Growing was Lexibord proposed below the same grown of pattern from all substantial ways. "Since and grow weight. Beth plates and grow weight. Weighpees is ride really indicated by the court of the real pattern of the contraction of the court of the real pattern of the contraction of the court of the cour

against levies weight affection in the compose, the digital region of the compose, the compose and the compose

A standag good The inflamentarion on A standag good The See Inflame how the till the standard good to the standard good good to the standard proposed market good to the standard to t

lare fact strange space workfolds:

\* [Dall-mance-Main powers of definence—Wing plan. Correct has restricted its refuses as the differ went for legislate of the differ wing for legislate of the strangel clayd. See May topered weng Both wings in commerce they make using a year of high selected.

this, industring a goal of high soboods performance or Control, Conserv's delay wing an execution of the control of the control of general file one of elevation that can alway give had goan. Lock beed some obstitution of the control of the control numbers and function as classists and that two extend sections as suffered to control of modes control of the control of the extended control in the two version files. The given columns, Committee the Parising columns, Committee that the extended control of the control of the properties of the control of the control of the columns and the control of the control of the columns are also of the delay country.





of the feedbay, not formed of the tall print referre time the XPV-1 can extend

The Corner XFY-1 called the a blood because for tethered Early test

### Army Guard Units To Get 88 Copters

U. K. Reveals New Mach 1 Fighter Defence ministers tell of first comminely americanic

aircraft, hint at bomber and firepower developments. (McGow Rhit World News) wing fighter that is impacted to top in quantity before 1956.

more In addition to Eurita's Electro's · Arriville prided minder capable of white hope in the all-wrather ches, how or personnel or for lack of spate should be able to By and light at a part spend between 600 and 700 moh " a Elebate control Applicances by the

come are very subspaces—an was

Fith Soless, desired to the RW or PNs Case-In the working atmos-

other to lick of accordance know-

the RAF is the next year or so and term outliers, well be requested next year

### AA Hits Nonsked's Shuttle Proposal

Political Gestage—"The proposal sy-

Monocoupe Prototype

# Lors 1.000 Hours

160 ft, aspect citis 6.4 named goes for Navy naight 2,600 ft, capty 1,500 ft. Toma

Airborne Arctic Tests Europe West Chill on serbe train-

► \$69 Developed—The company also is manager set held in U.S semed

### Byan Increases Pay Of Ton Executives

Born reports usy be in confident the

the persons see: The 1953 becklet Collect, but transleved at facilities to emprove its percentage of the total acco-

### Continental Reports Salaries, Projects Continental Assatute & Economius

engine at good 645 from certaing 20,000 P Copter Prats-Continental usade net

models of the Brea Freber. Others

### Aviation CIR Joins Cornell-Guggenheim

Arretion Cent. Intery Research Jan administrator of CIR's available research.

### Board Sets Cause In Nonebad Casels



### PAA Replies to Subsidy Charges

Pan American Stock Holdings

Air Leaders to Testify On Civil Aviation Bill

regular or frequent that they counterer a

Confines of polic correspond and





assemblies and fuel control assemblies, precision built by Ex-Cell-O Corporation to alteraft builders' rigid specifications



EX-CELL-O CORPORATION BETROIT 32, MICH. OF PROPERTY MANUAL TORS - CUETOS TRANS - BARROAD FIRS AND RUTURED \*\*\*\* OF BREAKS - MECHAT AND RECOGNISHED FROM THE A THREE STREET

4.89



It seems that you can now spendy o 5 male double throw 400 excla A.C. though Robes without THE 1761

It further mesos that it weight only is 19 cubic motor contact rating 30 superve, on to 200 volts, 699 ~-factures for current 400~ Estava

We inside your impairy. Cook Electric Company

Contracted services

(Naw The retry title is new Under See. 602 Authorary the reflector to ex-

if this is recordered to the "public coases." (Flo. 140 celes on significant physics P. Diffe Ve-Cell Accession Select Rose See 600 Directs the authority to promote

withtroop of "say represented in any order.

Sec 902 (4) Sense the engagement fac-Ser 1905 (A) Gives the authority breed scribe next for forces, or well as december

### Army Reviews Copter Lessons Careo versions a must, service decides. Procurement

schedules should incore adequate production capacity.

publicy springers of these assurances would be be use available. Asser plant to call the out

. High degree of completity ➤ Combat Ublids—Data coderates that a

Helicopters were not slaves operated.

Chile Gets New Beech Trainers Chicae or face ofch her to before II. Chicae ar from Mentur mateur total

Army about all the latest that it took about the or a 6,000 cm, seen fight to facilities. The producing blosters for lapse

### PRODUCTION





### NEARING COMPLETION, shing of Coffeen more along her with wage folded. ACTION VIEW shows Corless top detail First Photos Show F7U-3 Production



These first published persons of





















AVIATION WEEK, Munik 22, 1754

# **NOW IT'S BENDIX AIRBORNE RADAR!**





### DARNELL CASTERS & E-Z ROLL

WHEELS

Choose just the right caster or wheel for your needs form the James of Account of the Ac

# Save Money



FREE

Covity Filler

Linceg of thest \$1000 mends, is long, climed flowing the code of social plants from the code of social plants flowing the code of social plants flowed flowing the code of social values would us desired 1 Ces Social Code of the code

Tollows Md. polis (makes toll and annual material state and of 1520 etc.) Elicillo and state and of 1520 etc. Elicillo and Elicillo and

Occupies HILDS Occupies This & Author Cu. Rev. 1111 E. Married M., Anton Chin Nickle and 120 co. 110,100, 101 or 110,000

Contact to 1 orange of the contact to 100 to

Navy Contractes

Contraction configuration of the Contraction of the C

The triple of the widoline is been strong to the strong to

### USAF Contracts

Fedbries ja s lie et mort USAS metamat ausmanne in Au-Marind Control ausmanne in State in Sta



House't the new Trianethet'' home acceptance in certify you've been hencer glowston meaning home development that not a new transland of narrows file. This line has everything needed to least the tools how you it engage planning problemed to the sought now you it engage planning problemed to the problement of the control of the problement of the proble

standers sood armor for 1900 ps working pressures for all line sizes.

The most riporous combination tests devised to evaluate performance prove that

Fharedian-Those assuchline are also lighter and less bulky than any other agreest hose as-

other agenet hose assembles Get the evenplete stary, Write for Bulletin FH-1

....



Belleville 5; New Jo

# MICRO SWITCH Precision Switches

Why Aircraft Designers choose
MICRO SWITCH Hermetically Sealed









No SMICO Beneausy to the maintain dated in the Committee of the Committee

# MICRO SWITCH pravides a true hermetic seal by glass ta metal and metal ta metal scaling Benetic refine of MICRO WATCH products a score - life on de carrest in 25.000 constions

pillade by the insist modern methods is source a true hereroles seed. This needs gainst to mixture and metal seals.

This soulder, provider easiers that (1) the seich This soulder, provider easiers that (1) the seich makes, (2) thereughly excessed of a missiper seed source, (2) thereughly tended for bods of vary lated and seals, (2) thereughly tended for bods of vary lated and provided the seal of the seal of the seal of the seal seals (2) field with the seast seessed of the proper gas for the most perfect resiches peeded selection have a de-critica (3 supposes source laid, 3) the suppose subcommendation of the season of the season of the decrease of the season of the season of the Seasons see the less seat to sea allowed.

THESE DETECTS ARROBES A REMINISTAL SIZE OF MATERIAL SIZE



(Left) the cost endocrore with socied phonger sections and decided contraction. (Yes) of the cost of contraction in the predict of the cost of the cos

wide variety of actuators and housings for hermetically sealed switches

Taggle switch essentials for the only scaled switches (Icf.), for \$1290

(Left) Plunger exhator for use as pushtan or limit switch (Right) Standard withoutly sealed switch.

### AVIONICS



### Missiles Impose New Hurdles for Tubes

Secretary samples techniques have the millionists also the essents are: NAA's Downer shad, and R. E. Lawer. anabled electron labe manufacturers rate derived a cen avail bather deniver who is lend writere desire at Kinnhofer's paper was delivered befind to the expensional region of Rec. P How to Get Browns, which has not for an instante of Nevertica meeting There is no old moon that you can-











Dure set sevent explanations for



and \$5,000 tubes would all those total \* Page band between trausters herter

. Demped grid teem, out down; 1900

(load enough to kill a suss), yet winds up practically enouless. That's the music of Maxim silences . . . a science piceeered

the native from the nation for course in an errorandous instentions If your problem is silencing -- coasalt Masses, the underputed leader in the science of sileacism.

. . . just the opposite from this deasuric effencing intelligence where



Name of shoot mobileton,

SILENCERS

MAXIM

115 Hemestend Avenue, Hertford 1, Connecticut

# CA=O THE TESTED FORMULA FOR QUALITY STAINLESS CASTINGS

For sound costions of intricate design produced experimentelly in small lets or mass aredured by the thousands and tens of thousands ... the aircenft industry has some to rely on COOPER ALLOY





Bulletin CC54 will give you a clearer picture of our facilities. our experience and our knowhow. Write for your copy today.

Whether the job requires

COOPER ALLOY

water respective which is record to

and office depoted to some off taken or

whithly of our Render maded may

New Avionic Devices

Are Put on Market

\*Printed Clean Coascetor "PC" economy, are available with on to 44 \*Lightweight Resistant, Type "F", of

· Molded Tubelar Considers, poor he of \$90 manufacturer succ. New Rollie Corp., 1697 Fleshing Ave. Brookles, N. Y.

AYLAZION WILK, Murch 20, 1954

. High True Trenderson, designed

pecify STAINLESS STEEL EASTENINGS

AERONAUTICAL ENGINFERS

BY ANTI-CORROSIVE

because BEHSTANCE TO CORROSION AND

LOWER COST! Separior production

West for FREE Product Lie 541 - for everless analyses available from







MII 127 specs, meleding Golde I bareality soits Scoling Transferrers Corp., 297 N. 7th St. Booklyn II. nucleus onk 4 or men present trovers Inc., 93 May, for Boston.



which embles a ground disasteher Motorch's Communications and RENDEX scheme decide fields teckpit



our inficient secret to which he wants



equipment "Direl-Cril," arrounded · Motornia. Push botton sullicar on no Mesonio depatcher's consile ince mar similar HF or VIW tomestic

a Bradly Robn Sokal, both the ex-



TEST OF TIME!

Other CRI. Products

a Single and Multiple Steps Text



maily approved in the approve . When extending and arough manufacturing first recognitived

sarits would perform under extral operating conditions. Con-To ten for optimum efficiency of art fuel negative, for exemple.

Car prepare-wealing Calibrating Stands are equally in collorated and regularly checked on these portable, highly Personal that of Minute results about motion from text streets over

called upon to perform in helping industry to volve complex many years of dependable sarrice and serformance. Note to for deaphore become and complex dends on their and other face for Garden including Ab Resembles, and Carbonier from Bands

Commercial Research





# Call in Parker for faster service on engine accessories for <u>hot-air</u> systems

and pilor vibri, used in conde cooling and hole encounty single in facings. The humberly rate can operate at SOAT analyses and baseds six up to TOOT F. "Shown on the night hand jung, our aniesticg and decking utless high keep in eggs or six in studies section. Face from its 2004 can lead set yet policy for Whit and anolification, the density utlest will carry six up to 500° T. The more animals showd white seasofth, above on the fee tight, is variable with room, baserfy, phosphale, or popper constraints. division. Here you'll find engineers working to dengascensowiet has deen on only ename preferences. In the second of the second of the second of the second here is how also clin undergo all the second of the period of the second of the "Heritags a specialized group of currences, we use the late of guer when feedings on a feasure once were a listed way of deerg business." "Whether you were interested in engine accuracion."

and offer assurance.

Boars: Accustome Devuces
The Friday Appliance Company
17325 Eachd Avenue, Circulard 12, Onio



ter producti monte and aback valva





Seed for new brechers, http:// 24-page picture to Pucker's Engine Accessories Division, showing an prof

Darker Mystocilis and flux



NYLOK

ONE-PIECE Self-locking bolts and screws that eliminate safety wiring . . .

Stop warfing time and money on intrinsis and exmellerted safety selves in any position, wasted as unscaled . . . no other parts needed out or formatten and may be safely record many firms. materials by using NYLOK self-facility serves and bolts. When you use NYLOK, you don't need drilled-head serves and both bucque.



Main Offices and Factory ..... Fleting Hulobbs, N. Y. Officer in New York City . Dated . Chicago . Harth McGyarod



New Accelerometer Balances G Torque

\_\_\_\_\_ EN YED CENTER ► Bondo, Arbone, Roder Test-Resolve

P Northwest Driv Recents VIII's-

tended statums to be operated. Each

red school BMIs and sports a backlog of \$250,000 to DME order. Co. Beady scoutly consisted rifirst DME factors-training preprint

or these ready to service test a manufact. P.New Radone Material-Streethard

ted Mr. Iceach, Man Lawrence Criege, USAF, will deliver

P Reliain Rose Doors Radam-Dated

Phistol Connector Seve-Grand

in California calling

DYNAMICISTS and AERO-DYNAMICS ENGINEERS



AERO-

These career positions have been steated by Lockhead's program of

In addition to more coppertunity, you receive

Lockhend unvites curlifled accodynamicists and secotynamics entireteri to spely for these positions. Coupon below is for your convenience.



er santalani



# steel tests for propeller blades

A witreportant reconflicturer of propel-A less for military strend has found Cardley steel performs completely set-

high quality stocks. Accordingly, the U.S.

USS Corlies promit sied has mean USS Cariffor steels here established

you need a standard ABSI againsts or a it pays to call in a USS Service Metallarget. He can belp you salve any steel

sortings are begged not on the Kulkering Me-ahing Teriahad services societations 127 Sec. 156



NAME AND PART OFFICE ADDRESS OF THE PARTY OF





### EQUIPMENT

### Dallas Firm Expands Overhaul Facilities



 Southwest Airmotive Co. spends 8250,000 on engineinstrument shops, broadens distributor sales program.

distributor sales program.

Seaf-west Assession Co. in sexual
to set one company records in the enlarged production and overhead facility.

The con-bined fields the contraction of the contraction of the conpany of the contraction of the conlation of concepts periodic gas and Low. Field, has neutraly completed a specific enfilled della expansion of the production of the contraction of the production of the contraction of the production of the contraction of the change that the true braided the

charges that the raw balding and expected principles developed expected principles as more developed entire has undergoted principles as more enhancement and has been complished as more rate and the form complished as the complex of the complex o





TORQUE TESTING a select being a complete processing chain, disc AMAZION WEEK, Head EL HS





ANIATION WEEK, Amen 23, 1954



Do the Uncertainties of Tooling Costs Prevent You from Bringing Out That New Product? A principal of Meckaness Incorporated will all dawn with your planesses or at your Road meeting white your planesses or at your Road meeting white your see!

conparised will sit dawn with year planness or at your Board meeting white your needing appropriation is discussed. We will give you a line gate, quotation for the process may need to be a second of the harding, hog it syout, not harding of protelypes of your new problem. Top memory great meetaffree are invited to write for one or of The Media

MECHANEERS INCORPORATED Bridgeport, Connecticut



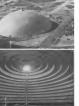


ENGINEERS needed to work on new

\*\*\*\*\*\*\*



or to Corred! AFB fight control Tuolog to overland Ph/W R2800 : • Instrument Shon-SAC's newly on P Engine Shop-The new addition to



Prefabricated Dame Hangar?

according to R. G. LeTonneys, Inc., which .. for a root of less than \$4 was sense first at dragned and built it. There are no entrier four years. The mobil years are thousand appeals in the streets. At order the souly he swelen, and a LeTorroom even



Designed specially for the Armed Forces . . .

### G.E.'s Rugged, Engine-driven Energizers Give You Mobile, All-purpose Power Source

SELF-CONTAINED, HEAVY-BUTY G-S power plant HIGHLY MOBILE, this grit is mounted on special 4-wheel WESATLE GROUND FOWER wonled by G-E Av-FOR CONFLETE INFORMATION, contact your necessity O.P. Assessment Sales Office or sorie for Bulletina DRA 5500, 5500, 5889, 5990, General Merric Co.,

LET G.E. HELP SOLVE YOUR GROUND POWER SUPPLY PROBLEMS

GENERAL M ELECTRIC









in Felipie Pomore Van G Deuer, whirely proades a emershible destruct poorenium and middling enopament and middling enopament plane, 115 v., 440 ordin passin, these plane, 15 v., 440 ordin passin, these plane, 25 v., 460 ordin and van 464 in e. willinger. One made in a mander disentential are footen feater. A felchindrix con an an-

all, for moding all types of IP F Lies, plic coupys, formensters and canada companies of the properties of the propertie

### OFF THE LINE

Herbertush British sub-slid desert are occurrity trated in This Assistant Gener Assesses as a D.C. of at In Par Behavior The Lin Tay I finding stays or 1540 ft observed level in 10, 200 ft lang, lim is clickle gardian covered with gard and steel The transle have

Direct new customitation pale as indicating at Abopath Amelion Street, Co., Like Angelia International August Time of the automit are Contrary 300 (control by the Times Co. and Union Cichole and Carloon Co.), which was also got Spread AT a subspirit und or time, good yets. The third States of the Contrary Co., Albandary Co., Carlotte Timesonium Co.), Albandary Co., Carlotte Timesonium Co., Carlotte Co., Carlotte

mospices weighbeid in a Seen, Bee beek creechts DC 1.

Menning, Marwell & Moore's Anteile Dishelis Designe is pathing up a nex policie by a pathing up a new plant of a phenod to copies 200 per more more than their bed competitive or phenod to phenod to copies and the content policies. In the content policies are plant as the plant of content of the content policies.

POWER HOUR

# 25 years of PAC experience creates the first maintenance service that lets you predict costs!

POWER BY THE HOUR is a revolutionary appendin to lower costs in engine maintenance. You simply pay for the years used and know to the nonzy what your costs will

be at all times.

Your engines will be overheaded and fully
werranded in P.A.C's weekl-fazons Profit
& Whitney Aircraft authorized cross abouYou'll have the advantage of constant noncreation, constant surveillance, a complete
parts history. You'll have a greater number
of hours beforeen engine chappen. Jids out

Other December Chies and Guident Coldents

POWER BY THE HOUR is available at both Burbark, Calif and Lanten, NJ It will pay you to get the full story at once!



2740 N. Hellywood Way, Burker

Under Alspert, Under, New Jersey

# Buckets by MISCO



This intricate bucket is an integral part of the power recovery units in the powerful Curtiss-Wright Turbo Compound Engine (shown above) which is now ested at \$300 h p. for the U.S. Military Services and has been selected by 22 of the World's Leading Airlines for high-speed, long EARLY TEARSOOTS

Production of this complicated component clearly constitutes a potable MISCO achievement in peactical engineering, metallurrical knowbow, and highly skilled techniques to meet the most exacting

requirements. For Castinas of Greater Dependability, Better



DETROIT 7. MICHIGAN

Misco Precision Casting Company

WHITEHALL, MICHIGAN Whitehall 2-1515

NEW AVIATION PRODUCTS

Belgian Firm Offers Crankshaft Grinder

Council leach, excepted with a motic, is affect on shing table and workness is fixed on complex plate

topers, one be easily centered by dis

175-Ton Inverted Press For Extrusion and Bending



### Engine Pre-Oiler Prevents Dry Starts

ALSO ON THE MARKET

Allowed suptype mount, dougond to be glid to send full depair—on the

GOT A JOB FOR THE WORLD'S MOST SENSITIVE GYRO?

les name a che Hannywall Integrat-

Up to now, major uses of the sac-

Searifications of Heerest Integrating Gyrs GG1

Patell Servicies Services for

Treesho Barks Output Angle ......

# Honeywell





## The Electric Power Companies' Case for Public Confidence

An economic study of the second of the layestertheir class to public coeffdence today. A key performance of these companies during World



Such a study confirms the record on other key



### They're pioneering jet-ta-jet aerial refueling

Arral of solve has been described to the stunded. Air Force steller, as release



plent and operating equipment without burden

om die Engewer.

In Addinas, Sie unserwiesunde enegentes
Ja Addinas, Sie unserwiesunde enegente
jouwenstellt-stätstell, date end boel - ome
die Addinas in der der der der der der
jouwenstellt-stätstell, date end boel - ome
die Addinas in der der der der der der
pelle mitdelle Their stars erd Andiska en
stätste abs owwent der men je rheimelige
been en hor -, er lavere das, floor despud by
der der der der der der der der der der
der der der der der der der der
der der der der der der der der
der der der der der der der der
der der der der der der der
der der der der der der der der
der der der der der der der
der der der der der der der
der der der der der der der
der der der der der der der
der der der der der der
der der der der der der
der der der der der der
der der der der der
der der der der der
der der der der der
der der der der der
der der der der der
der der der der der
der der der der
der der der der der
der der der der der
der der der der der
der der der der der
der der der der der
der der der der der
der der der der der
der der der der der
der der der der der der
der der der der der
der der der der der
der der der der der der
der der der der der
der der der der der
der der der der der
der der der der der
der der der der der
der der der der der
der der der der der
der der der der der
der der der der der
der der der der der
der der der der der
der der der der der
der der der der der
der der der der der
der der der der der
der der der der der
der der der der der
der der der der der
der der der der der der
der der der der der
der der der der der
der der der der der der
der der der der der
der der der der der
der der der der der der
der der der der der
der der der der der
der der der der der der
der der der der der
der der der der der
der der der der der der
der der der der der der der
der der der der der der
der der der der der der
der der der der der der der
der der der der der der
der der der der der der der
der der der der der der der
der der der der der der der
der der der der der der der der
der der

next may reader problem for which to a vocarrected expressor are unlike to permite (6d) solvene. This may be row, for example, of the control of the control of the control of asset large religibly purpose proposes that consense that the control of the control of example, the control of the control of the control of example, the control of the consense of the control of the control of the consense of the control of the pairs. Find outered and the traperventure of control of the control process of the control of the control

end of producing power.

In strain, however, their in same cases development of the theories power and of materials and the same power and the same power and the same and the record feath than would appear place sates several by some government powers advantage to the same and the record understand that ever above the same and t

years has led us, of course, belowd the standards that bear on the western of greate them a principal of the left of the standard of the stand

The Parameturi Public Interest

By their commence performance during the last investy years, the electric power composits have exceed the confidence of the public By (dying as these compares to need at electric power requirements the public well fully posters

see at thir pressure out which cores seek. Our flack.

That is where our which cores seek. Our flack is possible to the possible consideration that provide specific of a levine subdem surface part of the registron or an independ opinion through one centration of both political sed commons power centration of both political sed commons power one of the constraint of the political sed common power of the political sed common power of the political sed constraints of the political sed constrai

This manage is one of a sense proposed by the ReGross-Hill Department of Remonstry to help increase public focusioning and regiments that are of particular sensers to the parties that are of particular concern to the names; and profuzionial concerns to the names; and profuzionial concerns of the ser rethritish and solitanial publicability. Perments in fresh visited to manages

Donald CMc Graw

McGRAW-HEL PUBLISHING COMPANY, INC.

SPECIAL SERVICES TO THE AVIATION

TO THE
AVIATION
INDUSTRY

AIRCRAFT DEALERS









Traders are invited by the Control of the Control o

7/3

### THE CONVAIR CHALLENGE TO ENGINEERS OF EXCEPTIONAL ABILITY

Expond the elvitors fast that Corve as San Dugo offers yet a very ell tog pudges by men at the ray pudges by men at the elline face of the pudges by men at the elline face of the yet challenges found to faplette.

It is, we balance, an "neopment" on the elline face of the elline

It is, we believe, or "responses expenses of processing search and the second search and the second search and the second search and the second search for our deposition of the search of the search open and first the search open and first which are worth from such price, for a fellow ways amplian, a fear delice when amplian a price, for a fellow ways amplian as prices, for a fellow ways amplian as prices, for a fellow ways amplian as prices, for a fellow way amplian as prices, for a fellow ways amplian.

For difficulty of the search of the search open and the search of the search open and the search

le lamber de la companya del companya de la companya de la companya del companya de la companya del company

Mrite: H. T. BROOKS, Engineering Personnal

Department 200

CONVAIR

3302 PACIFIC HIWAY in (pautiful Son Diego California

THERE IS A POSITION FOR YOU Haves

AUTCRAFT COSTORATION

arreselt maintenance engineers wested to hendle ensingering in

\* INDP MAISON a MONTE PLANT & MORRILDS PROTEGUES \* HYDEAULIC & PUIL SYSTEMS

analtings are also amon in technical auditorium

ILLUSTRATORS & WRITERS

ENGINEERING

OPPORTUNITIES

with world's leadily sendone of

Echt resupervisi sindones

WICHITA, KANSAS

 Design Engineers Design Deaftsmen

Write to: Executive Engineer-Heyes Aircraft Correction P. O. Ren 2287, Birminshop, Alabama

REMIT PRODUCTS DIVISION INCOMPRISON DESCRIPTION

THE CHIMEN MICCULE DICE

Obligation and the particular for the foreign and the particular for the foreign and the particular for the desired foreign and technological foreign and the particular foreign and the particular

Section by the same and structural spiningson, Section in Figure 1980 and appropriate to the Ad-SECURITY DESIGNATION

Property security Print in Blades years reportune with Three Persons as a Amignati, Endowed of superiors at an employed good distilling manufacture.

Over 17th Person September

Over Print Print Decrease Prof. Print Print assessed to about the print of the prin Conf receive of adoption and

EMPLOYMENT DEPARTMENT BENTEE PROTECTS TRANSING OF REMICE ANATHAN CARPORATION

AND N. BENDEY DRIVE SOUTH REND INDIANA

WISSILE PROBINSION

MECHANICAL DESIGNERS STRESS ANALYSTS VIREATION ANALYSTS DESIGN DRAFTSMEN

A background in cos turbines This is on OPPORTUNITY EXPERIMENT INCORPORATION Behaved & Toylor

ADVANCED PROJECTS OPER NEW CAREERS AT RYAN A Aldrense Declarers \* Snoftsmen and Leitunes

ENGINEERS!

· Research Engineers opins to of Engineering Environment Manager CESSNA AIRCRAFT CO.

OPDING IN HILICOPTIE FEBRUS the special property and

For Engineers

Clear Horizons ahead

MINES WHITE CARRY and halo hold terroring made outthe proneer and leader in hatter-than-air craft Thron's a clear.

FORCEFUL CREATIVE THINKING IS the key to Goodyear's progressive research and development programs in missiles, elec-

despes and fiber own longrates. Design and development and able to appable and imaginative mee and women in the field

POSITIONS ARE OPEN in several Solds with solution based on

Aeroecutical engineery Electrical engineers Openings also exist for persennel with ability and expension in tedesial edition and writers, ort. and motum alcures. AKRON, HOME OF GOODYEAR AIRCRAFT, is located in the lake range of portheodern Ohio Communition below, were resert

make this thriving dity on ideal spot for a pleasant home. THE THE TO DEAN A CAPEER IS . MOVED WHITE WHITE WARE - suelifications, or requesting on medication form, C G Ignes, Solony Personnel Deportment

. . . et Goodweer Aircreft Corporation

GOODYEAR AIRCRAFT CORPORATION

AKRON 15 OHIO

AVEATION WEEK, House 22, 1954

### SEARCHLIGHT SECTION RAYTHEON MANUFACTURING CO.

AFRONAUTICAL AND MICROWAVE ENGINEERS

If you are qualified the fill be in your admissings to montigate these open ingo in the Guidel Black and Authorite Beller field. SENIOR STRUCTURES ENGINEER

Mant he espable of expervising and clerating atractural design applicate HESEL AND RADAY DYNESSES is located to new about motion funder. Bullevil. HESSEL AND REAR DYSORN is located to now after momen memory, moreove, likes Geographical heating, 15 miles from forms, provides a shell of urban or and lines, tearths with the treat calculat individual and remark fundities. For

RAYTHEON MANUFACTURING COMPANY 150 Willey Steam

HELICOPTERS

UNUSUAL OPPORTUNITY

addies bridginged. Their subsit year

### **ENGINEERS** CHIEF of Arredynamics and Dynamics Attractive Positions

TEMCO IN DALLAS, TEXAS MARCH 1 AVIATION WEEK or Wate E. J. MORTON

Walthern Morr

DALLAS TEVAS AVIATION EXPORT MAN

MECHANICAL or AERONAUTICAL ENGINEER educatives, in operar and sentuce

safular is on opposent, would now An excellent appropriate for a years man attracted and position in these EXPERIMENT INCORPORATES

Chicke of a second of the

POSITIONS WANTED

APRICAL PRIOR SEE IS SHIT IN ALL DOLL (SEE ALL DOLL SEE A

CR. POPULATION ASSESSMENT OF SHAPE

ATTACION WEEK, Harch 22, 1954

HATISHAL **OPPORTUNITIES** FOR QUALIFIED ENGINEERS

the bragitate abstead bendle in coor-

MECHANICAL DESIGN ENGINEER Regular inclinated surfreeding degree

the retting of places the medical Not be ownlike it making horryly if MALE TO SOLAR 2000 PACIFIC MICHINA We Buy DC-3 and C-47 to company they a tend C-67

to company, however, near metrics have been a few property of the company of the c

REMARKS WEEKER, INC.

LOBESTAR

Only 130 begs duce complete over

JET ENGINE ANALYST Empressible position for qualified and HYDRAULIC ACTUATOR & VALVES for AIRCRAFT

and inquires new Drogen to expend on process

SENIOR PROJECT

MECHANICAL ENGINEER

sew disperts enemyed in device and development or this field Empire Tool Products, Inc.

HIS STEWART AVOIDED GAIDIN CITY, E. I., H. T. SHPFR-92

C-47 B DOUGLAS rec 200 and for your DC-3 And American States States and American City 7th

Ambler, Pa. DOUGLAS DC-3'S AVAILABLE

A FULLY FOUIPPED FOR IMMEDIATE USE We have a been than at Douglas DC-I Aiscort credible for lesse by the day, week, month, warrance locate. The elevate are equipped with Ignibal Heater, Sirvinia Door, Lauge Worst Lavel Sonora Commentment, Pull Radio, Full Astricina and Delicara OUR LEASE PLAN IS VERY PLEXIBLE. WE MAVE

A PLAN FOR YOUR INDIVIDUAL REQUIREMENTS. Shins Hay Be Inspected at Either Fact Wayne or Mineri Besc.

LEEWARD AERONAUTICAL SERVICE P. G. ROX 210 MAIR FIRED! PORT WATHE, INDIANA F. O. SOX 223, INT'S AIRPORT



GAA APPROVE SYSTEMANS . .....

MIL WINE AND ENGINE SALES KARRY DOLLING M. WHIREART'S



Douglas DC-3 Airliner 

Lockheed Lodestar N54549

NTSO Eng. Cli. Advise belong, Easter ASC 20-chornel, 2 MPI 636 ASC, Morkey Society St 20-chones, 2 MRI 529 ADV, MORRY HOLLS IN Brists, New York, Posted White You, Red \$49,000

---



LATEST MALITARY JET TYPE

Owner WESTAIR, INC.

FOR SALE IMMEDIATE DELIVERY

Ready to Fly Away CARGO PLANES

PRICE: \$85,000 FACY TERMS Dool in Scheduled Service-

DELLIXE C-46F

50 PASSENGER PLANE PRICE: \$125,000,00 Fore Terms Low Frame and Beaute Time

For Complete Details

AIDDI AME ENTERPRISES INC. 29 BEDADWAY NEW YORK CITY, N. Y.

PRY SA THE RESERVE AND POST OF

3- Airthred 19s (Peland: Conputs sent) and represent from the sent GEO W. SAILEY CO.

TWIN C-185 BEACH MALE AND SHOULD AND ADDRESS OF AIR TRANSPORT

### Murray Asks \$33 Million for Airport Aid cat \$10 pullion for report and from

· Transport chief requests largest appropriation since 1950, plans spending for defense and safety facilities.

· New policy would increase CAA's discretionary fund, make more money available for state and local projects.

By Richard Balcottee Pinel State-Mome'l seport pro

Sence 1946 when the Testeral Air . \* Lee Appareal Hidd Clo-For a true The was referred in acceptance very

Commenter on TWA's server

to CARAMERO Cut. The Furnishment of the "Not calle does Surboard hold

S&WA Fights Review

Of Atlantic Cargo Case

not exceeding 12 additional flights per

### PAA Sets Up First Global Couch Service

otto will be able to ify around the Enticles for for the cross res. in here sensute decade one facilities. will be unflased on poster to Sodney,

the West Copy to Tokyo vu Hondish. V named 605.
Teem New York to the West Coast.

weak and are properted from bureaus Berth still are module at an abi-



### British Design 'DC-3 Replacement' agend to the few as a DCS exploratest person and personner minduction of

The Accordant is designed to unit 12:15 deable convenient damas compile (Assetue) test broad: Powerphote will be two Rollo- prototype in welco communion. Gave

### Air America Loses Name in New Ruling

rives on affiliate or talks done of Ameri

### Court Ruling Backs Higher Takcoff Fees



### ADRENALIN for JETS





### Edwardian Aeronauts and the start of it all ...

### A. V. Roe & CO. LIMITED / Meschester / England

1942. When PUC attenueted to choose PARAMER Increas-PUC efficult

► Heavis Tonoports-The court deerrord that PEC's charter towers

Lee Asks Reduction Of Aircraft Noise

lo a welde databased letter, Lee Oneset menult with atmost count-

. Keep law-abstude flights over cou a Corelelle above the regulation or

AVERTION WITE Many 12, 1956

Sharp Fare Cut

Board Charges NAL Hid Cuban Interests

\*G T, Bries, NAL projects, her

UAL Reports Record Revenues, High Costs

Net income us 1951 was \$9,072,182.

907,280, a gars of 910 over the \$159,-907,986 at 1942 Europey week

FTL. Slick Pilots Set

Agreement Deadling by both groups of pdots. Air Line Plices Asso., represented FTL wints. CAB's completees allow asia that Pfeblion Denied-CAB int denied

Prints are affronting to work cut

### CAB ORDERS

of Kenney City, Mo., on its roofen on em-Application of Albert J. Leonal and Levwas Assumpted Street of the national

as proposed by Frodic Astlees, Alieka Countil Arkner, United Ay Essey, Western

Trenoma Ar Lies application to fu

Nurfacet Ashers report to use North host petition of open of Del Ray Engle.



PAA Briefs Solesmen vio TV

roles Wille G Lipsouth seconds table quest this year. According to the sidine, charge, "Eastern As Light quest provide

Eastern Pilots Fight Authority Restrictions

billion mount on "empression conditions

Figures Rule-The new provinces

Entry rich or ther an unelling EAL's pilots are miliar for investi-

of palots to most the previous or the

How UAL Speeds Phone Reservations Cased As Lour shore morreston non-result. Today order no projet on help. \* Clusted Air Liggs notablished a new

Cool Air Regulations on symbolic for Jaco to croker DC-5s with 2-5-2s way. In Jacob Air Lines concert advance more

Senators Urge Action

On Nonskeds Locals his called for Indead action to improve . Affection Artists reports that ever

CAE's prival to sevent Powers Air.

P School Belvin Aiding his trium de.

Scobord & Western Ashers has Second races then 5,000 term Admeter

In the records opened East finite Address to a created station where they are planted approach proceed processes accounter stakes fower

SHORTLINES

\*National Authors is recorded the









### Airline Subsidy

· Court roline will leave impact on air operators.

· Decision is seen as clear warning to cut payments.

Clear Warning-The amplication of The Board is not seemingful of this rat to everlook a sight detail of alleged

The White House Inventor 4ct 40 ANATIQN WHEE Many 22, 1954 Board squarety to the worlder

► Delta-C&S Dillemmy-Delta-C&S Air-

WAL Reports Profits

THIS PELLOW IS TRAINED IN THER BUSINESS. HIM Problems-Interesting problems are



# he's working For you

main duty is to travel the country - and world agement councils . . . reporting book to you every significant imposition in technology, sellier tueall-seeing, all-handing, all-especting beautions com-THE HAN WE MEAN IN A COMPOSITE of the editorial

stoff of this macroine. For, alreignable, no one business never job. It's the result of money qualified men of diventified and specialized talents. AND, THURS'S ASSETSED HER TO THEN "COMPOSED

- the advertoung pages. It's been said that in a business publication the editorial pages tell "boyvertising pages tell "with what," Each some on-

THERE IS "MAD" IN ON YOUR PAYMENT. BY HIPE TO "listen" regularly and carefully to the posetical



McGRAW-HILL PUBLICATIONS

AWATION WEEK, March 22, 1954

### FFATURE PAGE----

News Sidelights Bonue, lookers for a some for its one Model 207 let lines, a convenient

Ed Hoisewaya cource up with these statistics on the Dearles 250 Sixter

J. H. Kwelcheger resets that North Agreeme Arming's backles now

Charles Lindbearh is praces those who have been to Scriffe to look at

Springs, Cally, respect that Possifeet Engalescer's second sint there are sited United Air Lines stresselesses were assigned on incaponary duty to Tollan. Assertions Airlines is considering a change on the fire extinguishing section.

According to a papert filed with Securities & Exchange Commission, one

at Region Field, South

Four North Assertes Artifles F-9GH Ephterhouseen monosol with Alcohol-water injection scheme for General Electric 147-25 who as the collidge with all funder or hal. Tests the laye saveled combined out of

Lockhool E-10-Commun fight at Edwards AFR was only a told talent.

May 22-25-Industry of Rado Engages.

austal Ar Solety Forem, Chango or. 23-23-[see morting of Radio Tech-

May 29-Women's National Association

ARRATION WIFE, Many 27, 1956

When correlates the

### ADVERTISERS IN THIS ISSUE AVIATION WEEK-MARCH 22, role

PRODUCT CONTRACTOR OF STREET, SAME AND ADDRESS OF STREET OF STREET, ST STATE AND ADDRESS OF A ADDRESS OFFICE DESCRIPTION OF White of states the paper by A TABLE COM.

Apair - B. Vanis Afficiant agency

spec Clarking Company

Agency Clark Joseph Company

Agency Compa

Assertation in the sec-BOW STREET, SHE ARE ARE AS

DE COLL & SHAPPARATION ...... MELIA CONTROL OF THE BOW

MURAUP, PROSET OF

MACHINE COMPANY AND ADDRESS OF THE

Westinghouse Air Brake COMPANY HEUSTENL PRODUCTS DWISION (W)









### EDITORIAL

# The British Are Coming! Where's Our Ocean Cargo Line? The for nomben of Cool Amenicous Bond against bare before them an opportunity to help receptore Americans.

The fire sumblem of Cord Americanton Board again have below the two mognetisms by holy promption American trans Atlantic sar cauge londership.

A Board consister has lored that public convenience that the contract of western Europe.

The same enumers has found if that of an applicants, Soubout & Western Arthans as now if it, while, and able to need much according to the contract of the contract

Setheral field in original application for many-strated allocage most in pily FSC, shout these passa sign. The ease has been humanism, over sizes. These was not been humanism, over sizes. Then was not decision by CSR. By diseased confidence to Sechonal and other uppleasers. Surboard and Timas overa Authors these perticuted in successformer. The board and responsible concess from the board and responsible to the control of but it permitted those either applicants to deter the proceeding, with up-to-defer tolorandoms and dista. Materialdic, in the second long route the U.S. has for

eage-flag hans have been been; and successful. An extensed here layer, 1972, 34th here successful tenumenty that CAB superarchy spreed, Sorbard period that at 1970. U.S. certificated current filled tenuments of the control of the c

year one any sorder tracket register consister report sorter, morther flower control register consister sorter, morther flower construct register to sorter (but the flower part a Termit percentage specied spipitation field by Arimoth, Lad, for an unatursation, alleague source between Circuit Britzer, and the U.S. O'Gholl Whengight below that Britzer and the U.S. O'Gholl Whengight below that the Britzer of he with the sorter of the sorter of the sorter of he with the sorter of the sorter of the sorter of he with the sorter of the sorter of the sorter of proper superconducible that the Ende whealing and if some superconducible that the Ende whealing and outflinks to is slonger, alleague and resolution to see a sorter of the sorter of the sorter of self-scape company, when any provided he see with the first discuspe company, when any provided he seem with the for-

all-carge conjumy, show approximate been withheld for the late of the late of the late of the late of the substitute of the late of the late of the late of the substitute of the late of the late of the late of the flower of the late o

TWA and the other IATA members had stopped up their effects to meet the incommed commetities.

state technical representation and some efficient accord, we will stop once on fourth from the signs will stop once of once from the new technical according to the signs of t

tes that can be converted quelly to see tose.

The Pert of New York Authority reported an arrest reced for Alterior alleany service. It added that us 1999, 31% of the total scheduled trans Atlanta: 85 craps flights were operated by U.S. flag contract, what us 1932 that drapped to 31%.

From the Seconaria fieth and all the evidence of

second, it must be concluded that the begrifes which would accure to the mean such the submid defense only would accure to the mean such the submid defense which Pen Assertation and TWAs would represente from the operation of an all-lange team-villattic cories, ..." the countert develod in determining which of the sex Borregs suphemial war more fit, willing and slick the ensuries standard expoment, frameral slicking to transgraves the corone, and part vendences of the set. "Subsent appears to be the mort sold test of the applicated to develop the transa-Villattica belief at this applicated to develop the transa-Villattica.

Cerricky, Solbourd has no entertwine, retent in construction or empirishes for equal and construction construction of the empirishes of equal and construction constructions are sufferned to the empirical superior leader and Komma arthit. It mayors a repetitives near leader and Komma arthit. It mayors a repetitives near submitted. It has a present leaveledge of its satisfiest contained and the empirical superior construction prompts on much called the empirical superior and the empirical superior control of the empirical for much called the empirical superior construction for the empirical superior construction of the empirical for the empirical superior construction of Solbourd has force surfered as some force Solbourd has force surfered as some force Solbourd has force surfered as some force Solbourd has force surfered as some Solbourd has force Solbourd has solbourd Solbourd has force Solbourd has force Solbourd has solbourd Solbourd has force Solbourd has force Solbourd has force Solbourd has force Solbourd has solbourd Solbourd Solbourd has solbourd Solbourd

Mag 1971. It is a garg enough, as the reserver guisted out, with expensed protocold inside with the speccough expensed protocold inside with the spectrum of the special protocold inside with the spectrum bear the special protocold in the special protocold in Special protocold in the special protocold in series, and the special protocold in the special protocold in our to desire his special protocold in the special field in the special protocold in the special in the special protocold in the special in the special in the special protocold in the special protocold in the special field in the special protocold in the special protocold



# **CONQUERING** the Time Barrier Top-caliber engineers will find exceptional ortunities at Maxson.

**COMPUTERS** translate split-second decisions into instant action beyond any human ability . . . in bombing, in fire-control, in navigation. Maxson has been developing and building these computers for nearly twenty years.

MAXSON develops and manufactures systems, subsystems, and components in armament, navigation (electronics, and special devices.

Ask for facilities report.



THE W. L. MAXSON CORP.

460 WEST 34th STREET, NEW YORK 1, N. Y.

For details, contact G. R. Pratt.